

# SHARDUL NEGI

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## EXPERIENCE

### Software Development, Netapp Inc, San Jose, CA

Oct 2021-Present

- Contributed in SnapCenter plug-in team that provides VMware Data Protection capabilities (Backup & Recovery) for On-Prem and Hybrid environments.
- Led a team for creating a POC that adds Virtual Machine & Datastore Data Protection capabilities to [NetApp BlueXP](#). Product supports hybrid environments where the backups are replicated to any cloud environments (GCP, AWS and Azure).
- Spearheaded the front-end releases of NetApp BlueXP to manage hybrid [VMware Data Protection](#) application and provided support to the customers for initial releases.
- Was one of the inventors for vVol Datastore in [SCV](#) to extend its capabilities for Attach, Detach and Backup capabilities from ONTAP in vSphere. Led [vVol Data Protection](#) support in SnapCenter plug-in for VMware vSphere.
- Enhanced the existing CI/CD pipeline by adding more autonomy over code-coverage, lint code check and nightly deployments during check-in. Automated redundant vulnerability check-ins, code building workflows and debugging server logs, thereby reducing the manual deploying process and increasing team's efficiency by 60%.
- Developed framework in SCV plugin to calculate the customer usage of Vvol features.
- Led the QA team's efforts for UI automation in Kubernetes cluster and configured it for smoke testing.
- Conceptualized a POC for deploying hybrid backup module in BlueXP using Kubernetes forming a service-mesh architecture.
- Mentored new hires and interns for initial onboarding and assigning bug fixes.

**Technology Stack:** Java, Go-Lang, C#, Angular, MySQL, VMware vSphere, Istio, Kafka, Docker

### Software Development, Citizen's Bank, Boston, MA

Oct 2020-Sept 2021

- Established as a Middleware Developer using [IBM IIB 10.0.0](#) toolkit for creating JSON based API from existing XML and MQ's.
- Developed a Java Spring application to fetch data from the mainframe (COBOL), de-serializing it in SOAP or JSON format as per the needs of the front-end team's requirements and deploying it to [IBM API](#) connect.

**Technology Stack:** Java, IBM IIB, ESQ, jQuery, mainframe

### Teaching Assistant, Northeastern University, Boston, MA

Jan 2020-May 2020

- Tutored 60 students for Web Design and Tools class** by taking concept classes and helping professor with assignments. Taught Angular and basic JS functionality and graded final assignments.

### Software Engineer Intern, American Tower, Boston, MA

Jun 2019-Dec 2019

- Moderated as a frontend engineer**, decomposing existing UI (Java Swing) to move towards a .NET based framework UI utilizing **ReactJS, HTML, CSS, and JS**. Designed modules assigned for tower creation and page functionalities.
- The existing UI was a 2D structure. I created a 3D model POC to render same to web application utilizing Babylon JS being adopted by the company now. Developed application increased **productivity by 60% and is being leveraged by 1600 engineers**.

**Technology Stack:** C#, BabylonJS, React, WebXR, Fiddler, open GL, MS SQL server

### Software Developer, Huawei India, Bengaluru, India

Sept 2016-Dec 2017

- Full stack** in creating APIs and the network frontend for Huawei's [Gauss DB](#) for MySQL enterprise solutions. Managed reporting the health of the physical database servers and extrapolating the results to the UI.
- Formulated and devised a tool for generating a **DB configuration XML in Core Java operating Spring Boot**. The generated XML installed the binaries in Suse Linux over a **distributed system** having 1 to 256 nodes availing Round Robin Algorithm for distributing the payload over the datacenters.

**Technology Stack:** Java, Angular, Python, Postgres

### Software Developer and Test Engineer, Accenture India, Bengaluru, India

June 2015-Sept 2016

- Structured the automation of manual QA process using Rest Assured for API testing, Selenium for web applications and Jubula for desktop application.

**Technology Stack:** Java, TestNG, Selenium Web Driver

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## EDUCATION

**Northeastern University, Boston MA**, MS in Computer and Information Systems(Software Engineering)

Jan 2018-May 2020

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## PATENTS AND PUBLICATIONS

**vVol Data Protection P-012505(IDF 12505):** The innovation describes the new Data Protection capabilities added for Virtual Volumes (vVols). It adds workflows for instant restore using ONTAP primary restore, attach, and detach of a datastore from Primary/Secondary location to VM's.

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